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REMARKS

Claims 12-23 and 25-30 are pending in the application.

Claim Rejections - 35 U.S.C. § 103

(a) Claims 12-23, 25-26, and 28-29 have been rejected under 35 U.S.C. § 103(a) as

being unpatentable over Ghercioiu et al. (US 2004/0010734) in view of Hasako et al. (US

2003/0093715), and further in view of Keele et al. (US 2005/0086695). This rejection is

respectfully traversed.

A. Definition of Programmable Display Apparatus

In the pending claims, the term "display apparatus" has been amended to --programmable

display apparatus-- to further clarify the claimed invention of the present application.

The definition of the "programmable display apparatus" is described in the attached

"Programmable Display Apparatus" (http://www.jpo.go.jp/shiryou/s sonota/map/denki18/4/4-

1.htm), which is a literature provided by the Japanese Patent Office. A copy and an English

translation of the literature are attached herewith (Appendices A and B).

In the literature, a "programmable display apparatus" is defined as "an electronic

manipulation display apparatus including a dot display screen, an operation switch, an interface

with a host controller, and a program memory for controlling a screen, an instruction input or the

like, where a user can provide, as an application program, a display screen, an instruction input, a

communication function with the host controller, and can perform setting in accordance with an

object and make the apparatus operate accordingly."

Since the "programmable display apparatus" simply displays switches and/or numeral

keyboard as an image, it is possible to make the apparatus compact by displaying only a

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necessary image in accordance with an operation procedure, and also possible to reduce an

erroneous operation such as pressing a wrong switch.

The present invention relates to a "display apparatus having a function of displaying a

state of control target equipment. More particularly, the present invention relates to a display

apparatus having a function of storing a signal indicative of a state of control target equipment

electrically connected thereto and a video signal of the equipment in association with each other

and a function of reproducing moving images corresponding to the state based on a reproduction

instruction, a program product for causing a computer to function as the display apparatus, and a

recording medium storing the program product" (see page 1, lines 7-14 of the specification of the

present application).

An object of the present invention is to provide a display apparatus capable of giving

notification of a change in state of a device in real time and also supporting measures including

analysis of the cause of the change (see page 3, lines 15-18 of the specification).

According to one embodiment of the present invention, programmable display apparatus

100 sends a command to a control target device. The control target device performs a specific

operation based on the command.

B. Ghercioiu Reference

In contrast, the Ghercioiu reference discloses a "system and a method for deploying and

executing a program, e.g., a graphical program, on an embedded device. The program and a

plurality of execution system components are stored on a host computer. The program is

analyzed programmatically to determine a subset of the plurality of components required for

execution of the program. The subset of components and the program are combined into a file

while preserving execution order of the program. The file is transmitted to the device. The file is

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used to construct a combined program which includes executable code for the program and the

subset of components. The device includes a minimal execution engine which executes the

subset of components to execute the program. The file may be streamed to the device for

streaming execution, where received portions of the subset of components needed for execution

of received portions of the program are stored until no longer needed" (see Abstract of the

reference).

C. Differences in Configuration

Applicants submit that the claimed "programmable display apparatus" of the present

invention is completely different from the "computer system 102" of the Ghercioiu reference, as

can be understood from the above-described disclosure (Please also refer to Appendix C)

With reference to Fig. 2 of the Ghercioiu reference and Fig. 1 of the present application,

the configurations of the reference and the claimed invention are compared as follows.

a. Difference 1

According to the Ghercioiu reference, it is a precondition that the computer system 102

stores a program such as a graphical program and a plurality of execution system components. A

subset of components are determined and combined into a file. The file is transmitted to an

embedded device and executed by the device.

In contrast, in the claimed invention of the present application, it is a precondition that

the claimed programmable display apparatus (programmable display apparatus 100)

communicate with the control target equipment (target system 186) and the image pick-up means

(camera 184) by transmitting a command and receiving data which indicates a state of the

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control target equipment. Applicants note that the programmable display apparatus does not

transmit a program both to the camera 184 and the target system 186.

b. Difference 2

There exists a difference between the Ghercioiu reference and the claimed invention in

terms of the graphical program development environment. Namely, according to the Ghercioiu

reference, it is necessary to have graphical program development environment 201. In contrast,

according to an aspect of the claimed invention, the programmable display apparatus 100 does

not have the graphical program development environment 201.

c. Difference 3

Further, Applicants note that, according to an aspect of the claimed invention of the

present application, the target system 186 does not receive a program to be executed by the

system and consequently, no program which is transmitted by the programmable display

apparatus is installed in the target system 186 such as the minimal graphical program execution

system 205 and the real-time OS 210.

D. Patentability of the Pending Claims

As seen from the Office Action, the Examiner simply refers to paragraphs of the cited

references. Applicants respectfully submit, however, that at least the following elements/features

are not disclosed or suggested by the Ghercioiu reference (Please also refer to Appendix D).

With reference to Fig. 3 of the Ghercioiu reference, the difference of the configuration

between the cited reference and the claimed invention is explained.

In the Final Office Action, the claimed "storage means for storing a control program

having a plurality of instructions and symbol data for displaying a plurality symbols related to

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each of said plurality of instructions" is compared to paragraph [0233] of the Ghercioiu

reference. This paragraph, however, does not disclose the technical feature corresponding to the

claimed "storage means." It is apparent that paragraph [0233] does not disclose the claimed

"symbol data for displaying a plurality of symbols related to each of said plurality of

instructions," as recited in claim 12.

"Video Signal Input Means" and "Video Data Storing Means"

As to the claimed "video signal input means for receiving an input of video data

generated based on a picked-up image of said control target equipment for each of the

instructions," and the "video data storing means," the Examiner asserts that these features are

disclosed in paragraph [0080] of the Ghercioiu reference (see page 3 of the Office Action).

However, the Ghercioiu reference does not disclose or suggest the foregoing claimed

features of the present invention. More specifically, Ghercioiu merely states, in paragraph

[0080]:

As FIG. 3 shows, the memory medium 166 may be coupled to the host bus 162 by means

of memory controller 164. The host bus 162 may be coupled to an expansion or

input/output bus 170 by means of a bus controller 168 or bus bridge logic. The expansion

bus 170 may be the PCI (Peripheral Component Interconnect) expansion bus, although

other bus types can be used. The expansion bus 170 includes slots for various devices,

such as a network interface card 114, a video display subsystem 180, and hard drive 1102

coupled to the expansion bus 170.

Although the video display subsystem 180 is mentioned in paragraph [0080], it is clear

that the claimed "video signal input means" and the "video data storing means" are neither

disclosed nor suggested. Nonetheless, if the Examiner maintains that the claimed features are

disclosed in the Ghercioiu reference, the Examiner is respectfully requested to specify a passage or a term in the paragraph instead of paragraph numbers.

E. Other References

The Hasako reference has been relied upon to show that the "relation means" and the "second display control means' are known in the art.

Further, the Keele reference has been relied upon to show that the "control means" that displays the moving image of at least one of a time period from a predetermined time previous to the detection and a time period to a predetermined time after the detection is known in the art.

In view of this, Applicants submit that even assuming that Ghercioiu, Hasako, and Keele can be combined, which Applicants do not admit, the cited references, taken singly or in combination, fail to disclose or suggest the "storage means," the "video signal input means," and the "video data storage means," as recited in claim 12.

Claims 13-22, 25, and 26, variously dependent on claim 12, are allowable at least for their dependency on claim 12.

Claim 23 is allowable at least for the similar reasons as stated in the foregoing with regard to claim 12.

Claims 28 and 29, variously dependent on claim 23, are allowable at least for their dependency on claim 23.

The Examiner is respectfully requested to reconsider and withdraw this rejection.

(b) Claims 27 and 30 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ghercioiu in view of Hasako and Keele, and further in view of Applicants' Admitted Prior Art.

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Claim 27, indirectly dependent on claim 12, is allowable at least for its dependency on

claim 12.

Claim 30, indirectly dependent on claim 23, is allowable at least for its dependency on

claim 23.

The Examiner is respectfully requested to reconsider and withdraw this rejection.

Conclusion

Accordingly, in view of the above amendments and remarks, reconsideration of the

rejections and allowance of the pending claims in the present application are respectfully requested.

The Examiner is respectfully requested to enter this Amendment After Final in that it raises

no new issues. Alternatively, the Examiner is respectfully requested to enter this Amendment After

Final in that it places the application in better form for Appeal.

Should there be any outstanding matters that need to be resolved in the present

application, the Examiner is respectfully requested to contact Maki Hatsumi, Registration No.

40417 at the telephone number of the undersigned below to conduct an interview in an effort to

expedite prosecution in connection with the present application.

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If necessary, the Director is hereby authorized in this, concurrent, and future replies to charge any fees required during the pendency of the above-identified application or credit any overpayment to Deposit Account No. 02-2448.

Dated: August 27, 2010

Respectfully submitted,

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Attachments: Appendices A-D